IBM LinuxONE Bootcamp / Techzone Guide

LinuxONE virtual server provisioning

Last updated October 6th, 2025

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Synopsis

This document shows how to provision a virtual Linux Guest server from IBM Techzone cloud environment.

Introduction

This hands-on lab environment is accessible via IBM Technology Zone and can be provisioned only by IBM employees and IBM Business Partners. Once provisioned, however, the environment's connection details can be shared with anyone and accessed via the public internet for cases when clients want to get hands-on.

Lab Environment

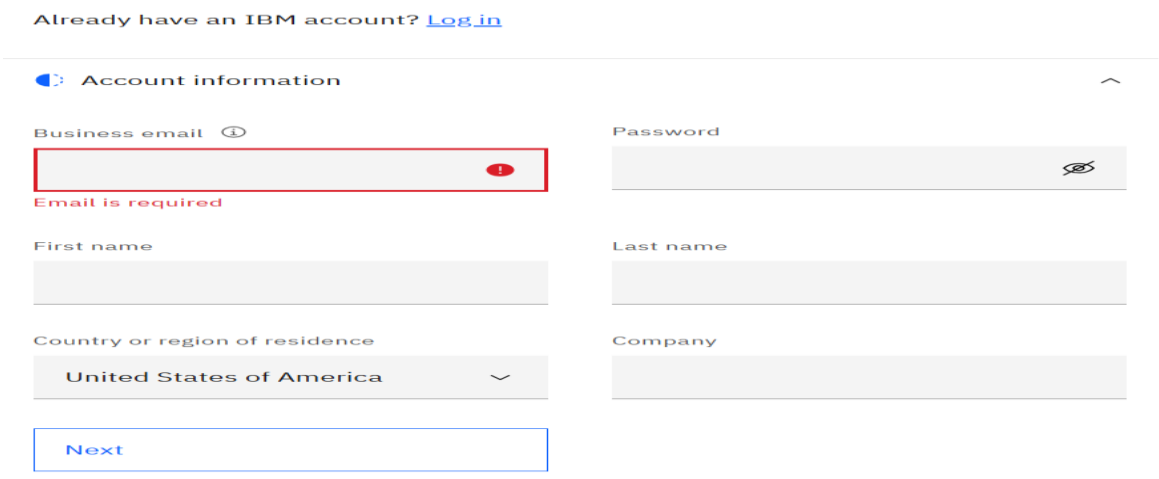
The lab exercises will be performed on Red Hat Linux 9.x guests running on IBM Z system Cloud environment hosted from IBM Techzone

Lab Access

1. The lab exercises will be performed on Red Hat Linux 9.x guests running on IBM Z system Cloud environment hosted from IBM Techzone
2. To access the IBM Techzone (Cloud environment) you will need an IBMid
3. If you have IBMid, proceed to step 4, otherwise execute the following steps to create the IBMid:

   Creating an IBMid

   Visit the IBM ID registration page. Fill in your email address, add your first and last name, create a password and specify your country of residence. Click Next.

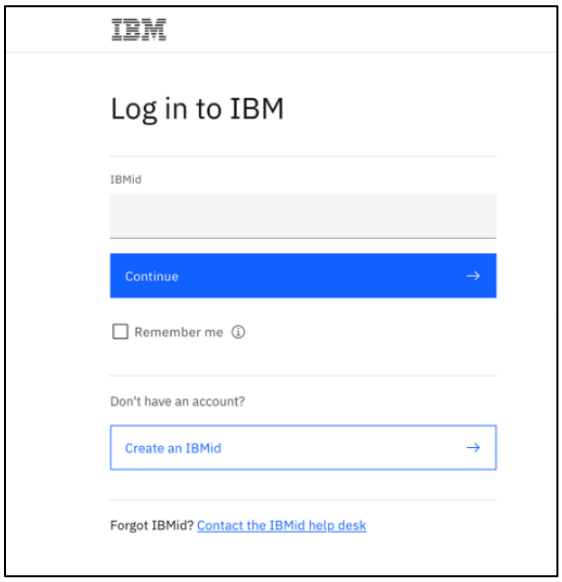


After clicking Next, a verification code will be sent to your email address. Copy and paste the code from your email into the verification box. Click Next.
Note: check your spam folder or firewall settings if the verification email is not received within 5 minutes.

4. Once you have the IBMid credentials follow these steps

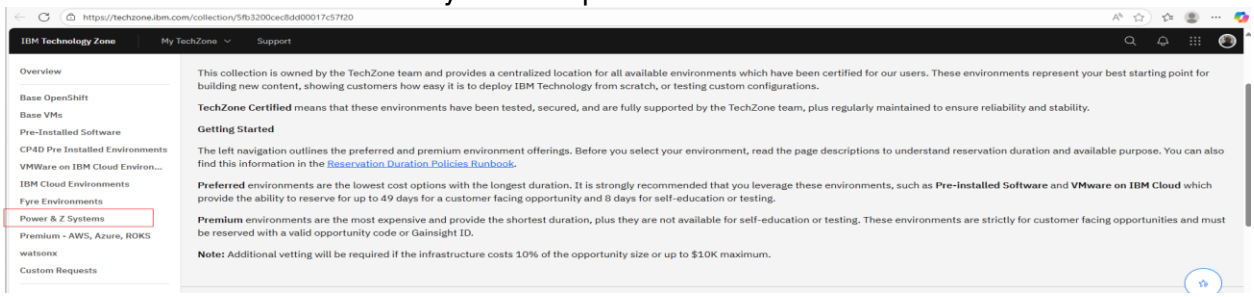
Find the Collection in TechZone

1. Login to [IBM Technology Zone] with your IBMid credentials:

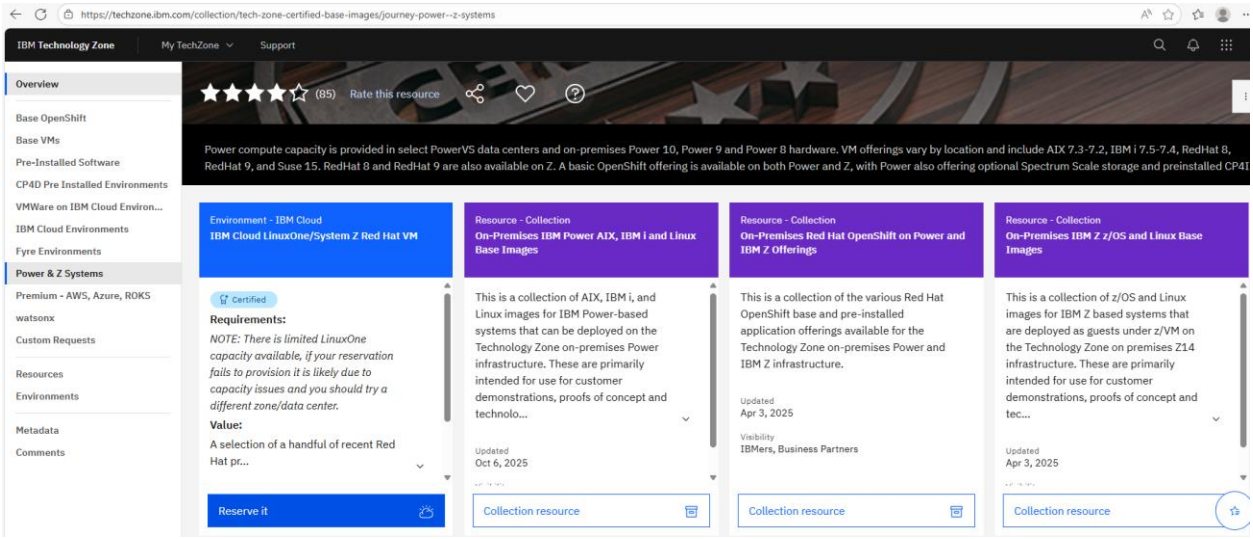


2. Using the search bar on the top right of the dashboard page, search for ‘Certified Base Images’ under Resources. Select that collection.

In the left hand tool bar section, you will see multiple collections and in that you must select the ‘Power and Z systems’ option.

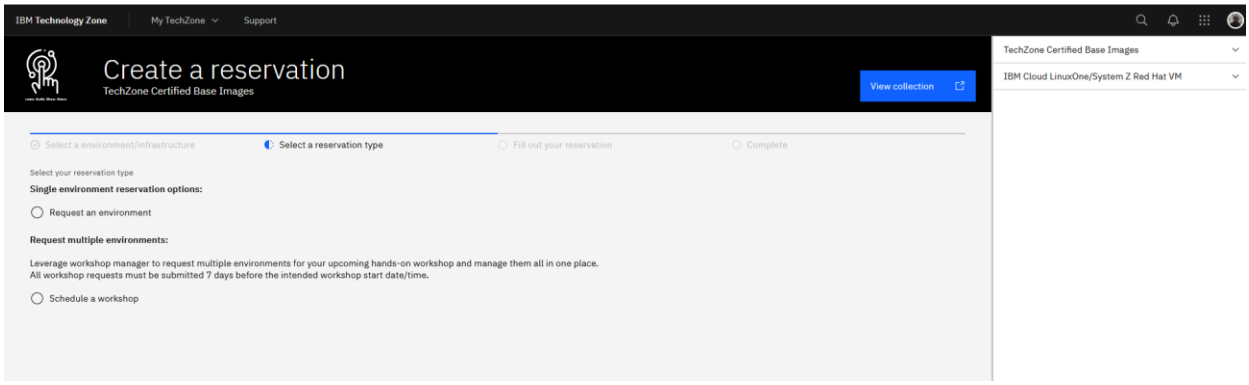


3. Under “ Environment - IBM Cloud **IBM Cloud LinuxOne/System Z Red Hat VM**” section click on the ‘Reserve it’ button.



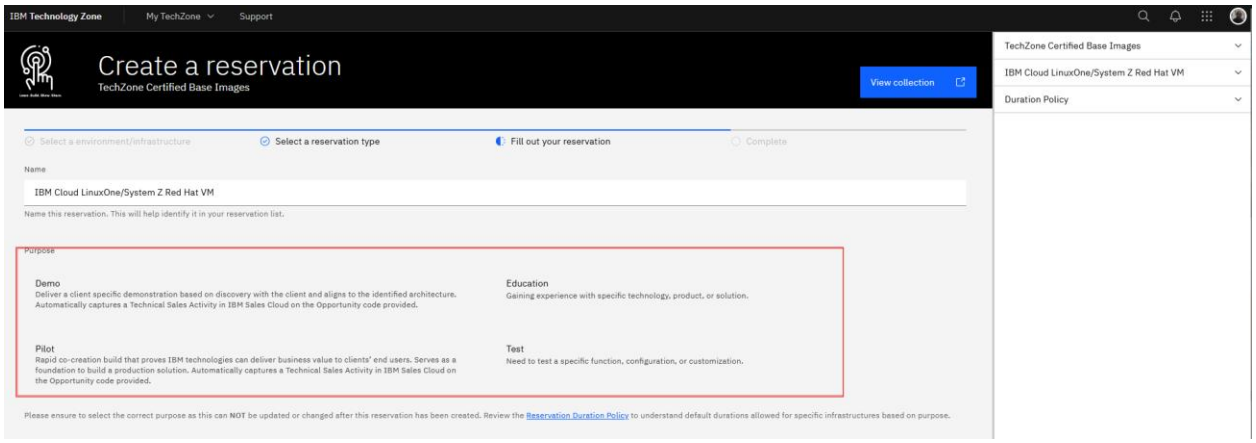
Provision the Lab Environment

4. On the next page, click on the ‘Request an environment’ option under Single environment reservation options:

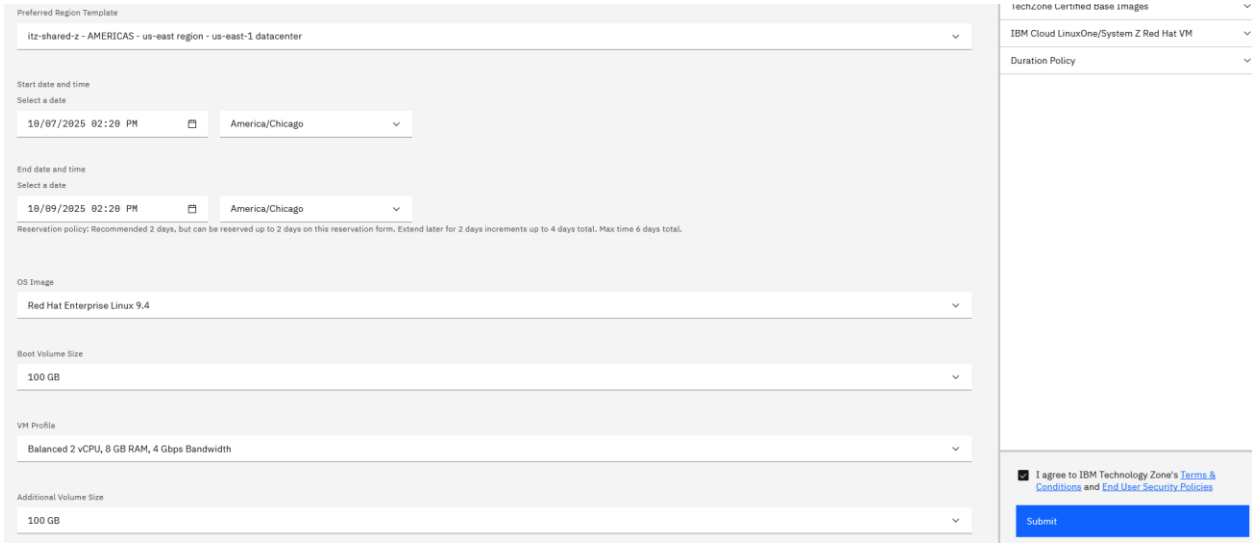


5. Select the ‘Purpose’ for your environment. Note that this selection affects how long you can reserve this environment.

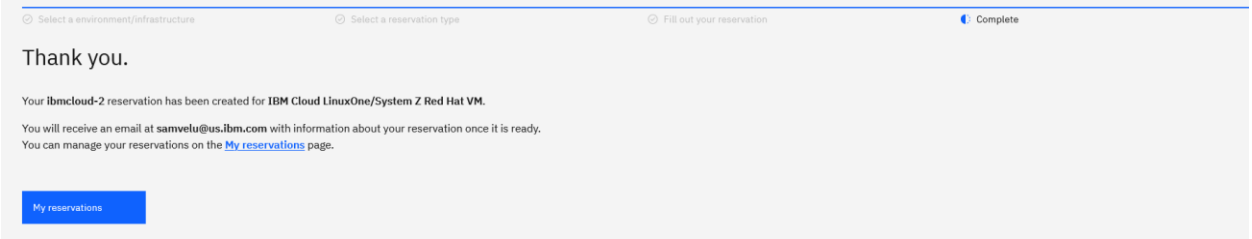
    - **Demo**: 4 days with 4-day extensions available up to three weeks – valid sales opportunity number required
    - **Education**: 2 days with two 2-day extensions available up to six days – description required
    - **Pilot**: 7 days with two 7-day extensions available up to two months – valid IBM Opportunity ID required
    - **Test**: 12 hours with two 12-hour extensions available up to two days – description required



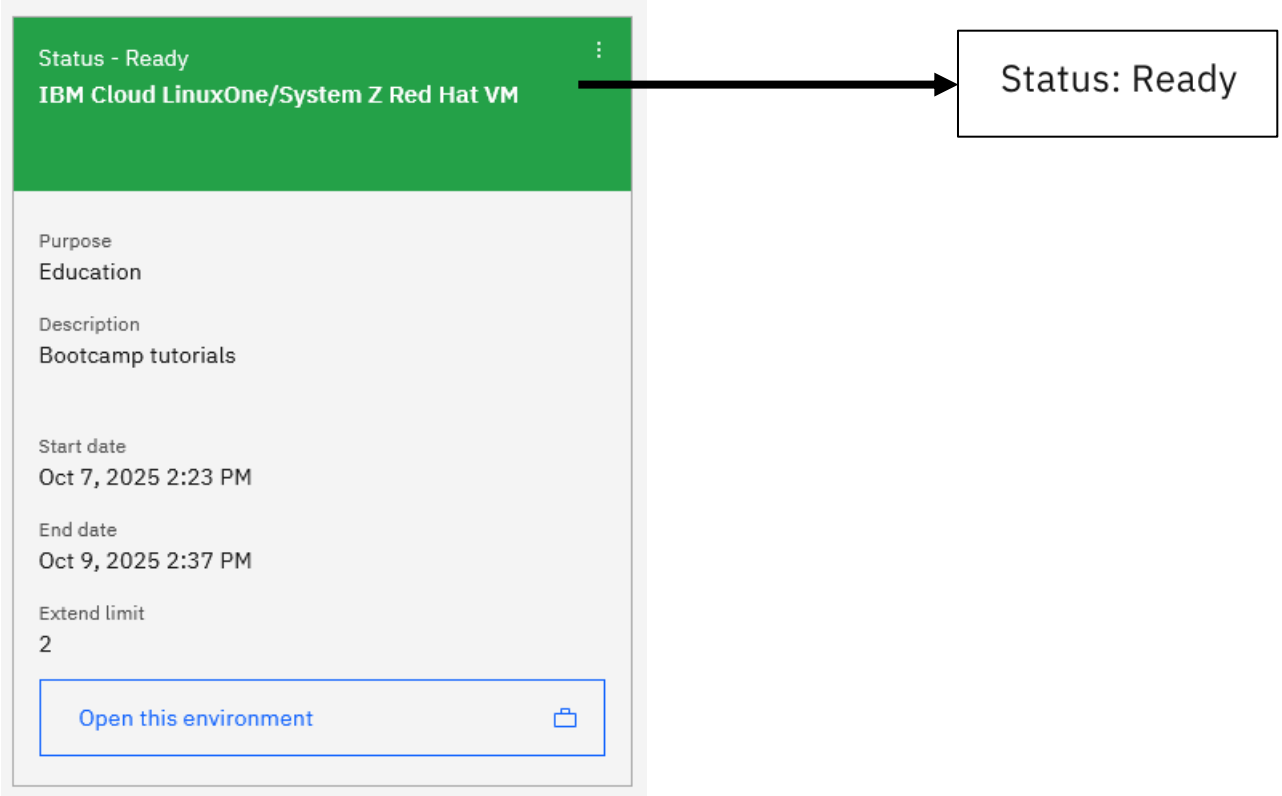
6. Fill out the reservation form: opportunity ID (if required, see above), description, datacenter based on the geographic location closest to you, and reservation time, OS Image(Choose Red Hat Enterprise Linux 9.4). Once ready, accept the terms and conditions and hit ‘Submit’ button.



7. On the next page, click on ‘My Reservations’ to see your environment as it is provisioning.

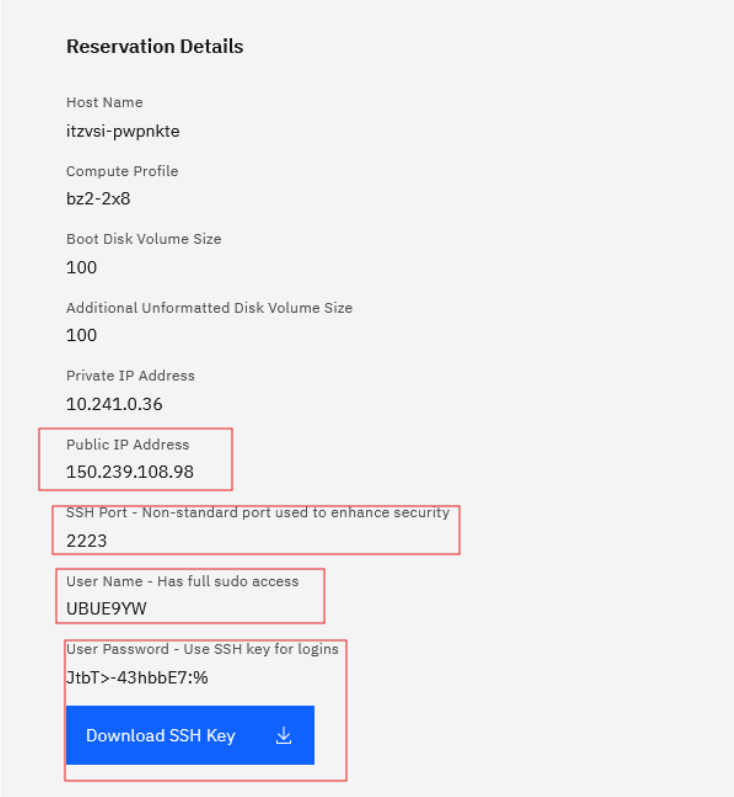


8. Wait for your environment to be ‘Ready’. The estimated time for provisioning is between **20 minutes and 90 minutes**. Click on the tile once ready.



Once the environment is ‘Ready’, click on the tile to see Environment details to view login credentials and other connection details.

Following is a sample Reservation details, note the **ip address**, **port**, **userid** and password and the **SSH key** for logon



You are now ready for the labs!

Access the provisioned Linux Server

Download the SSH Key, in our case in the windows environment, we downloaded the ssh key as "ssh_private_key.pem"

You can connect to the provisioned Linux server from a **Linux or MAC OS terminal** environment with the following command

ssh -i [key file name with location] user@host_ipaddress **-p** 2223

```
[samlinux@LAPTOP-FRQP14HT ~]$ ssh -i /tmp/ssh_private_key.pem UBUE9YW@150.239.108.98 -p 2223

--------------------------------------------------------------------------

                    Welcome to IBM Technology Zone

--------------------------------------------------------------------------


IBM's internal systems must only be used for conducting IBM's business
or for purposes authorized by IBM management.  Use is subject to audit
at any time by IBM management.

Unauthorized access will be investigated and penalties will be pursued
in conformance with applicable laws and regulations. If you are not an
authorized user disconnect now.



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Activate the web console with: systemctl enable --now cockpit.socket

Register this system with Red Hat Insights: insights-client --register
Create an account or view all your systems at https://red.ht/insights-dashboard
Last login: Wed Oct  8 10:36:03 2025 from 47.188.73.59
[UBUE9YW@itzvsi-pwpnkte ~]$
```
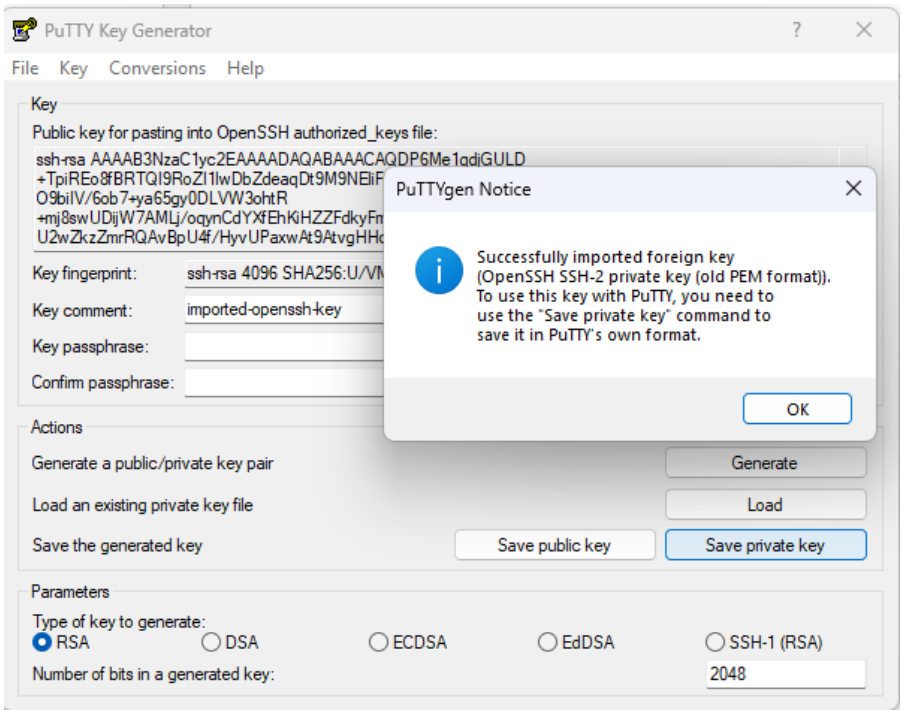
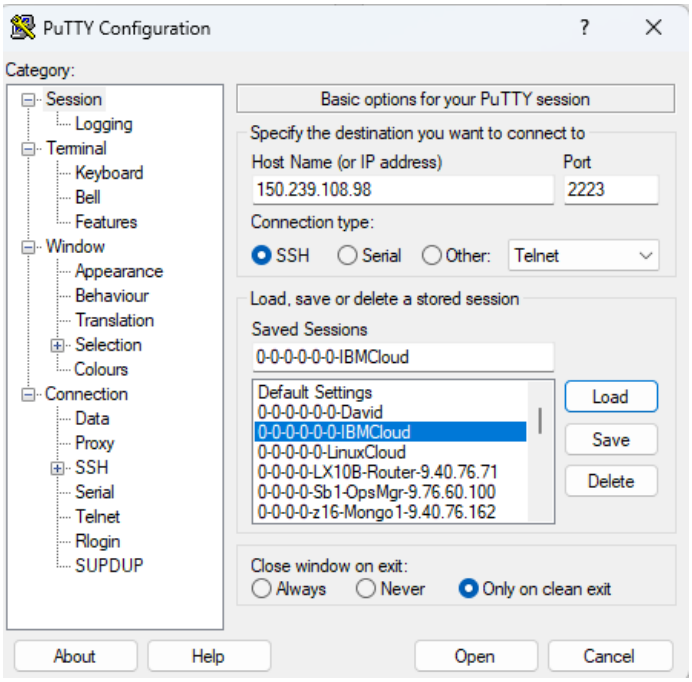
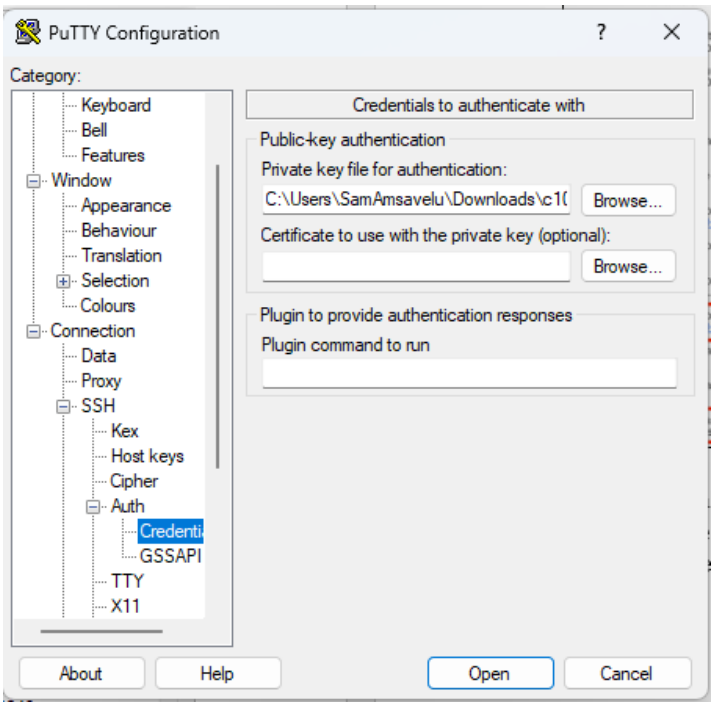

If you are using “**PuTTY**” to connect to your provisioned server, PuTTY requires private keys to be in its proprietary **.ppk** format. To convert the downloaded .pem file use **PuTTYgen** utility (a tool included with PuTTY) to convert your .pem key to .ppk format.

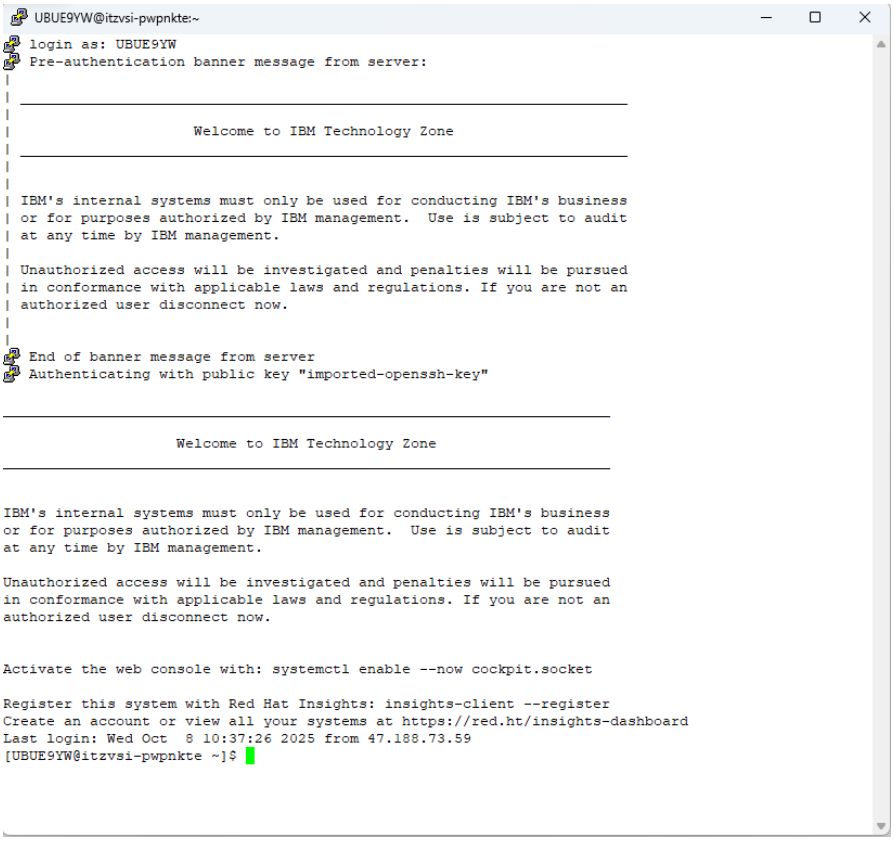
Open PuTTYgen.
Click "Load" and select your .pem file
Click "Save private key" and save it as a .ppk file.



Now in PuTTY, Save a session with ip address, portname
Then navigate to Connection > SSH > Auth > Credentials and browse to select the newly created .ppk file.







Now you are connected to the Linux server

References

1. “Red Hat Enterprise Linux” redhat.com (link resides outside IBM)
2. “https://samveluibm.github.io/MongoDB-Wildfire-Workshop/” github.com (link resides outsides IBM)

Contact

This hands-on lab guide was created by Sam Amsavelu (samvelu@us.ibm.com) from the IBM Z Washington Systems Center. Please reach out if you have any questions, comments or concerns.